

MODEL 6140A IRIG B VIDEO SYNCHRONIZER

FEATURES

- IRIG B time code generator.
- Synchronized RS-170 composite video frame generator
- Synchronized NTSC, black burst, composite video frame generator.
- IRIG synchronized RS-170 and RS-170A vertical sync output.
- Battery backed-up internal clock.
- Powered by 9 to 36 Volts DC



DESCRIPTION

The Model 6140A is a stand-alone unit designed to synchronize color and/or monochrome video cameras to an applied IRIG B serial time code. All cameras genlocked to like units will be precisely synchronized. The 6140A provides a precise IRIG B serial time code output, an RS-170 composite video signal and an RS-170A (NTSC) composite signal with black burst. The unit uses an external IRIG B input signal to synchronize the internal IRIG generator/video timing logic. Lock status of the IRIG generator and Video Synchronizers is displayed via LED indicators on the front panel. If the external IRIG lock is lost the 6140A will automatically switch to an internal clock and continue generating the output IRIG B signal. No discernible change in the IRIG B output or video sync will occur due to this transition.

The 6140A may also be used as a stand-alone unit to generate an IRIG B signal and video synchronization signals. The time-of-year may be set by the user via an included RS-232 port, which may also be used to read the IRIG time. In the event of a power failure the 6140A will no longer output the serial time code or video sync however the time will continue to advance by automatically switching to a battery backed-up internal clock. The IRIG and video outputs will resume, without resetting, upon reapplication of power.

The 6140A is housed in a ruggedized aluminum enclosure, 8.5 " wide x 10" deep x 2.5" high and is powered by 9 to 36 volts DC.

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SPECIFICATIONS

Frequency Stability (not locked to GPS)

When powered	1 part in 10 ⁶ .
On Battery backup	1 part in 10 ⁴ .

Clock backup life (un-powered) 1 year minimum.

IRIG B Input Modulated IRIG B serial time code IAW OSG IRIG Standard 200-98.

IRIG B Output IRIG B122 serial time code IAW OSG IRIG Standard 200-98.

RS-170 Output Composite Video Sync signal IAW EIA RS-170, 1V peak to peak, 60 Hz field rate.

RS-170A Output Composite Video Sync signal IAW EIA RS-170A (NTSC), 1V peak to peak, 59.94 Hz field rate, Black burst.

RS-170 Sync Vertical TTL levels, low true non-serrated vertical synchronization signal derived from the RS 170 composite sync signal.

RS-170A Sync Vertical TTL levels, low true non-serrated vertical synchronization signal derived from the RS 170A composite sync signal

Power 9 to 36VDC, 2.75 Watts.
Note: 115VAC power optional.

Temperature
Operating 0°C to +55°C
Non-operating -20°C to +70°C

Humidity 95% non-condensing.

Package
Size 8.5" wide x 10" deep x 2.5" high.
Weight 2.5 lbs.

